

DONALD R. VAN DER VAART

SHEILA C. HOLMAN

XXXXX, 2016

Mr. Jason Joyner Site Manager Norandal USA, Incorporated 1709 Jake Alexander Blvd Salisbury, NC 28145

SUBJECT: Air Quality Permit No. 02397T23

Facility ID: 8000057

Norandal USA, Incorporated Salisbury, Rowan County

Fee Class: Title V NSR Status: Major

Dear Mr. Joyner

In accordance with your completed Air Quality Permit Applications for a TV permit renewal received September 1, 2016, we are forwarding herewith Air Quality Permit No. 02397T23 to Norandal USA, Incorporated, 1709 Jake Alexander Blvd, Salisbury, North Carolina, authorizing the construction and operation of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the conditions of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

Mr. Joyner XXXX, 2016 Page 2

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Rowan County has been triggered for increment tracking under PSD for sulfur dioxide (SO_2), PM_{10} and nitrogen oxides (NO_x). However, no changes in actual emissions of these pollutants are associated with this permit renewal.

This Air Quality Permit shall be effective from XXXX, 2016 until XXXX, 2021, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein. Should you have any questions concerning this matter, please contact Betty Gatano, P.E., at (919) 707-8736 or betty.gatano @ncdenr.gov.

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section Division of Air Quality, NCDEQ

Enclosure

c: Heather Ceron, EPA Region 4 (permit and permit review)
 Ronald Slack, Supervisor, Mooresville Regional Office
 Connie Horne (cover letter only)
 Central Files

ATTACHMENT to Permit No. 02397T23

Insignificant Activities per 15A NCAC 02Q .0503(8)

Emission Source ID	Emission Source Description
I-WL	waste oil loading operations
I-TH	two natural gas-fired heaters (2 million Btu per hour heat input capacity)
I-PL	one propane loading station
I-PST	petroleum product storage tanks
I-TSC	trim scrap handling system with three cyclones
I-WO	one waste oil/water collection tank
I-PCT	parts cleaning tanks
I-MS2	one caster tip preparation workshop with bagfilter
I-LL	one leveling line with wet scrubber
I-MST	one mineral spirits storage tank (10,000 gallon capacity)
I-AO	one acid dip operation
I-FO1, I-FO2, and I-FO3	three fuel oil tanks
I-K1, I-K2, I-K3	three kerosene tanks
I-NG1, I-NG2, I-NG3, I-NG4, I-	seven nitrogen generators
NG5, I-NG6, and I-NG7	
I-NS	one nitrogen separator

- 1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the Permittee is exempted from demonstrating compliance with any applicable requirement.
- 2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit."
- 3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled "Specific Permit Conditions Regulatory Guide." The link to this site is as follows: http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide.

Summary of Changes to Permit

The following changes were made to the Norandal USA, Incorporated Salisbury, Air Permit No. 02397T22:

Pages	Section	Description of Changes	
Cover and	-	Updated all dates and permit revision numbers.	
throughout permit			
	Insignificant	Added footnotes to insignificant activities list.	
	Activities List		
3 – 4	1.0 – Equipment	• Removed natural gas/No. 2 fuel oil/spent rolling oil-fired high purity	
	List	aluminum melt furnace (ID No. FR-3).	
		Removed cold rolling mill for aluminum (ID No. SMS Mill) and	
		associated mist eliminator (ID No. SMS ME).	
		Removed anneal furnace (ID No. FF-21).	
5 – 8	2.1 A	Removed natural gas/No. 2 fuel oil/spent rolling oil-fired high purity	
		aluminum melt furnace (ID No. FR-3) and natural gas-fired coil anneal	
		furnace (ID No. FF-21) throughout Section 2.1.A.	
5	2.1 A.1	Renumbered permit condition.	
7	2.1 A.4.d	Clarified condition to specify action has to be taken if above normal visible	
		emissions are observed from a furnace. The previous permit condition	
		incorrectly stated action to be taken only if visible emissions from the	
		sources (ID Nos. FF-10, FF-11, FF-22 through FF-26, and FR-3 through	
8 – 11	2.1 B	FR-14) were observed to be above normal. Removed cold rolling mill (ID No. SMS Mill) with associated mist eliminator	
0-11	2.1 D	(ID No. SMS -ME) throughout Section 2.1.B.	
9	2.1 B.1.c	Updated condition for testing to most current permitting language.	
9	2.1 B.1.d	Removed statement to establish normal within 30 days of start-up of the	
7	2.1 D.1.u	cold rolling mill (ID No. SMS Mill). This equipment was never constructed	
		and is being removed from the permit.	
9	2.1 B.1.e	Reformatted permit condition.	
11	2.1 B.3.d	Removed condition requiring the Permittee to establish a normal	
		operating range for amperage load on drive motor of the associated mist	
		eliminator SMS-ME. This equipment was never installed.	
		• Renumbered the permit accordingly.	
11	2.1 B.3.f	Added standard reporting requirements for CAM.	
12 – 19	2.2 A	Removed natural gas/No. 2 fuel oil/spent rolling oil-fired high purity	
		aluminum melt furnace (ID No. FR-3), cold rolling mill (ID No. SMS Mill)	
		with associated mist eliminator (ID No. SMS -ME), and natural gas-fired	
		coil anneal furnace (ID No. FF-21) throughout Section 2.2.A.	
16	2.2 A.5.d	Reformatted permit condition.	
17	2.2 A.6.c	Added a permit condition requiring the Permittee to submit a signed	
		statement semiannually specifying only clean charge, customer return, and	
		internal scrap are used as aluminum raw materials for melt furnaces (ID	
		Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13).	
18 – 19	2.2 A.8.b	Updated permit condition for combusting spent rolling under 15A NCAC	
		02Q .0711.	
20 - 29	Section 3.0	Updated the General Conditions and List of acronyms to the most recent	
		revision (4.0. 12/17/2015).	



State of North Carolina Department of Environmental Quality Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
02397T23	02397T22	XXXX, 2016	XXXX, 2021

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: Norandal USA, Incorporated

Facility ID: 8000057

Facility Site Location: 1709 Jake Alexander Boulevard

City, County, State, Zip: Salisbury, Rowan County, North Carolina 28146

Mailing Address: 1709 Jake Alexander Boulevard City, State, Zip: Salisbury, North Carolina 28146

Application Number: 8000057.16B

Complete Application Date: September 1, 2016

Primary SIC Code: 3353

Division of Air Quality: Mooresville Regional Office

Regional Office Address: 610 East Center Avenue, Suite 301

Mooresville, North Carolina 28115

Permit issued this the XXth day of XXXX, 2016.

William D. Willets, P.E., Chief, Permitting Section

By Authority of the Environmental Management Commission

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SECTION 1 - PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Page No.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
5, 13	FR-1	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum melt furnace No. 1 (20 tons design capacity and 16 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-2	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnace No. 1 (10 tons design capacity and 4 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-4	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum melt furnace No. 2 (40 tons design capacity and 25.5 million Btu per hour heat input capacity)	IN-2	afterburners (2.5 million Btu per hour heat input capacity)
5, 13	FR-5	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnace No. 2 (15.2 tons design capacity and 4 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-6	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum melt furnace No. 3 (30 tons design capacity and 16 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-7	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnace No. 3 (10 tons design capacity and 4 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-8	one natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnace No. 4 (10 tons design capacity and 4 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-9	one natural gas-fired melt furnace equipped with low-NOx burners (50 tons design capacity and 30 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-10	one natural gas-fired aluminum holding furnace equipped with low-NOx burners (40 tons design capacity and 12 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-11	one natural gas-fired aluminum melt furnace equipped with low-NOx burners (50 tons design capacity and 30 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-12	one natural gas-fired aluminum holding furnace equipped with low-NOx burners (40 tons design capacity and 12 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FR-13	one natural gas-fired aluminum melt furnace equipped with low-NOx burners (50 tons design capacity and 30 million Btu per hour heat input capacity)	N/A	N/A

Page	Emission		Control	Control Dordon
No.	Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
5, 13	FR-14	one natural gas-fired aluminum holding furnace equipped with low-NOx burners (40 tons design capacity and 12 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FF-1 through FF-6	six natural gas-fired coil anneal furnaces (3.3 million Btu per hour heat input capacity, each)	N/A	N/A
5, 13	FF-10 and FF-11	two natural gas-fired coil anneal furnaces (3 million Btu per hour heat input capacity, each)	N/A	N/A
5, 13	FF-20	one natural gas-fired coil anneal furnace (13.5 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FF-22 and FF-23	two natural gas-fired coil anneal furnaces (18 million Btu per hour heat input capacity, each)	N/A	N/A
5, 13	FF-24	one natural gas-fired coil anneal furnace (process rate equal to 6000 pounds per hour and 18 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FF-25	one natural gas-fired coil anneal furnace (process rate equal to 6000 pounds per hour and 18 million Btu per hour heat input capacity)	N/A	N/A
5, 13	FF-26	one natural gas-fired coil anneal furnace (process rate equal to 6000 pounds per hour and 18 million Btu per hour heat input capacity)	N/A	N/A
9, 13	RM-1, RM-2, and RM-3 CAM	three cold rolling mills for aluminum	RM-1ME RM- 2ME RM- 3MEN RM- 3MES	four oil mist eliminators
9, 13	RM-4 and RM-5 PSD CAM	two cold rolling mills for aluminum	RM-4ME RM- 5ME RM-4SS RM-5SS	two oil mist eliminators two stack skimmers
12, 13	MD-1 through MD-4	four in-line degassers/filters	N/A	N/A
12, 13	MD-5 through MD-7	three rotary in-line degassers	N/A	N/A

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

A. Three natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum melt furnaces Nos. 1, 2 and 3 (ID Nos. FR-1, FR-4, and FR-6) with associated afterburners (ID No. IN-2) installed on FR-4

Three natural gas-fired aluminum melt furnaces equipped with low-NOx burners (ID Nos. FR-9, FR-11, and FR-13)

Four natural gas/No. 2 fuel oil/spent rolling oil-fired aluminum holding furnaces Nos. 1, 2, 3, and 4 (ID Nos. FR-2, FR-5, FR-7, and FR-8)

Three natural gas-fired aluminum holding furnaces equipped with low-NOx burners (ID Nos. FR-10, FR-12, and FR-14)

Fourteen natural gas-fired coil anneal furnaces (ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation	
particulate matter	particulate matter 0.36 lb/million Btu each (ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22) 0.34 lb/million Btu (ID No. FF-23) 0.33 lb/million Btu (ID No. FF-24) 0.30 lb/million Btu each (ID Nos. FF-25 and FF-26)		
$E=4.10P^{0.67}$ where: $E = \text{allowable emission rate in pounds per hour}$ $P = \text{process weight in tons per hour}$ (ID Nos. FR-1, FR-2, and FR-4 through FR-14)		15A NCAC 02D .0515	
2.3 pounds per million Btu heat input (ID Nos. FR-1, FR-2, FR-4 through FR14, FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26) Spent rolling oil firing - 1.0% sulfur by weight (ID Nos. FR-1, FR-2, and FR-4 through FR-8)		15A NCAC 02D .0516	
	40 percent opacity (ID Nos. FF-1 through FF-6, FF-20, FR-1, and FR-2)	15A NCAC 02D .0521(c)	
visible emissions	20 percent opacity (ID Nos. FF-10, FF-11, FF-22 through FF-26, and FR-4 through FR-14)	15A NCAC 02D .0521(d)	
volatile organic compounds	See Section 2.2 A.1.	15A NCAC 02D .0902(f) [RACT for VOC]	
volatile organic compounds	See Section 2.2 A.2.	15A NCAC 02D .0958	

Regulated Pollutant	Limits/Standards	Applicable Regulation
toxic air pollutants	See Section 2.2 A.3. State-enforceable only	15A NCAC 02D .1100
odorous emissions	See Section 2.2 A.4. State-enforceable only	15A NCAC 02D .1806
volatile organic compounds	See Section 2.2 A.5.	15A NCAC 02Q .0317 [Avoidance for NAA NSR]
hazardous air pollutants	See Section 2.2 A.6.	15A NCAC 02Q .0317 [Avoidance for MACT]
nitrogen oxides	See Section 2.2 A.7.	15A NCAC 02Q .0317 [Avoidance for RACT]
toxic air pollutants	Section 2.2 A.8. State-enforceable only	15A NCAC 02Q .0711

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of natural gas that are discharged from anneal furnaces (**ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22**) into the atmosphere shall not exceed 0.36 pound per million Btu heat input each.
- b. Emissions of particulate matter from the combustion of natural gas that are discharged from anneal furnace (**ID Nos. FF-23**) into the atmosphere shall not exceed 0.34 pound per million Btu heat input.
- c. Emissions of particulate matter from the combustion of natural gas that are discharged from anneal furnace (**ID No. FF-24**) into the atmosphere shall not exceed 0.33 pound per million Btu heat input.
- d. Emissions of particulate matter from the combustion of natural gas that are discharged from anneal **furnaces** (**ID Nos. FF-25 and FF-26**) into the atmosphere shall not exceed 0.30 pound per million Btu heat input each.

Testing [15A NCAC 02Q .0508(f)]

e. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in Section 2.1 A.1.a. through d. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

f. No monitoring, recordkeeping, or reporting is required for particulate emissions from the firing of natural gas in anneal furnaces (ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26).

2. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from these sources (**ID Nos. FR-1, FR-2, and FR-4 through FR-14**) shall not exceed an allowable emission rate as calculated by the following equation:

$$E = 4.10 \times P^{0.67}$$

Where: E = allowable emission rate in pounds per hour

P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

Monitoring/Recordkeeping/Reporting [15A NCAC 02O .0508(f)]

c. No monitoring/recordkeeping/reporting is required for particulate matter emissions.

3. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from the combustion sources (ID Nos. FR-1, FR-2, and FR-4 through FR-14, FF-1 through FF-6, FF-10, FF-11, FF-20, and F-22 through FF-26) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the combustion of natural gas or No. 2 fuel oil.
- d. The maximum sulfur content of any spent rolling oil received and burned in any furnace shall not exceed 1.0 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the spent rolling oil exceeds this limit.
- e. The Permittee shall collect and analyze one sample of spent rolling oil by December 30 of each calendar year in accordance with 15A NCAC 02D .0501(c)(4) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.d. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.
- f. The Permittee shall record in a logbook (written or electronic format) the amount of spent rolling oil delivered to and combusted at the facility on an annual basis. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the records are not kept.
- g. The Permittee shall submit a summary report of the spent rolling oil test results, postmarked on or before January 30 of each calendar year. The Permittee shall include in the report the total gallons of contaminated kerosene combusted at the facility for the previous 12 months. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the emission sources (**ID Nos. FF-1 through FF-6, FF-20, FR-1, and FR-2**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.
- b. Visible emissions from the emission sources (**ID Nos. FF-10, FF-11, FF-22 through FF-26, and FR-4 through FR-14)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any limit given in Section 2.1 A.4.a. and b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- d. To ensure compliance, once a day, the Permittee shall observe the emission points of these sources (**ID Nos. FR-1, FR-2, FR-4 through FR-14, FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26**), when operating, for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semiannual period. The Permittee shall establish "normal" for the sources (**ID Nos. FF-25, FF-26, and FR-9 through FR-14**) in the first 30 days following the start-up. If visible emissions from these sources (**ID Nos. FR-1, FR-2, FR-4 through FR-14, FF-1 through FF-6, FF-10, FF-11, FF-20, and FF-22 through FF-26**) are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.4.a. or b. above.

- If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.
- e. Visible emissions from the aluminum melt furnace No. 2 (**ID No. FR-4**) shall be controlled by afterburners. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include the monthly external inspection of the ductwork and afterburners noting the structural integrity. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if the ductwork, fume incinerator, or afterburners are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- f. The results of the visible emission monitoring shall be maintained in a logbook (written or electronic format) onsite and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.
 - The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if the records are not kept.
- g. The results of inspection and maintenance for the afterburners shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- h. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- i. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

B. Three cold rolling mills (ID Nos. RM-1, RM-2, and RM-3) with associated mist eliminators (ID Nos. RM-1ME, RM-2ME, RM-3MEN, and RM-3MES)

Two cold rolling mills (ID Nos. RM-4 and RM-5) with associated mist eliminators (ID Nos. RM-4ME and RM-5ME) and stack skimmers (ID Nos. RM-4SS and RM-5SS)

The following table provides a summary of limits and standards for the emission sources described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
	40 percent opacity (ID Nos. RM-1, RM-2, and RM-3)	15A NCAC 02D .0521(c)
visible emissions	20 percent opacity (ID Nos. RM-4 and RM-5)	15A NCAC 02D .0521(d)
volatile organic compounds	Work practice requirements as specified in Section 2.1 B.2 (ID Nos. RM-4 and RM-5)	15A NCAC 02D .0530
volatile organic compounds	See Section 2.1 B.3. (ID Nos. RM-1 through RM-5)	15A NCAC 02D .0614 [40 CFR 64]
volatile organic compounds	See Section 2.2 A.1.	15A NCAC 02D .0902(f) [RACT for VOC]
volatile organic compounds	See Section 2.2 A.2.	15A NCAC 02D .0958
odorous emissions	See Section 2.2 A.4. State-enforceable only	15A NCAC 02D .1806

Regulated Pollutant	Limits/Standards	Applicable Regulation
volatile organic	See Section 2.2 A.5.	15A NCAC 02Q .0317(a)(2)
compounds		[Avoidance for NAA NSR]

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the rolling mills (**ID Nos. RM-1, RM-2, and RM-3**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.
- b. Visible emissions from the rolling mills (**ID Nos. RM-4 and RM-5**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any limit given in Section 2.1 B.1.a. or b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- d. To ensure compliance, once a week, the Permittee shall observe the emission points of these sources, when operating, for any visible emissions above normal. The weekly observations must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from the are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.1.a. or b. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

e. Visible emissions from the rolling mills shall be controlled by the associated mist eliminators. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include a monthly external inspection of the ductwork and mist eliminators noting the structural integrity. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if the ductwork or mist eliminators and are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- f. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions;
 - iii. the results of any corrective actions performed; and
 - iv. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- g. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- h. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. The following Best Available Control Technology (BACT) limits shall not be exceeded:

Emission Commo	Dallardarad	BACT Emission Limit Control Technology	
Emission Source	Pollutant		
Two aluminum rolling mills	VOC	-	mist eliminator and stack skimmer, and
(ID Nos. RM-4 and RM-5)			use of rolling oil consisting of 98%
			saturated aliphatic hydrocarbons

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- c. The Permittee shall perform inspection and maintenance on mist eliminators (**ID Nos. RM-4ME and RM-5ME**), and keep records as per Section 2.1 B.1.e. and f. above. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if requirements of Section 2.1 B.1.e. and f. are not met.
- d. The Permittee shall keep records for each shipment of rolling oil received documenting the amount of saturated aliphatic hydrocarbons. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these records are not maintained or if the amount of saturated aliphatic hydrocarbons in any shipment of rolling oil received is less than 98 percent.

Reporting [15A NCAC 02Q .0508(f)]

- e. Reporting requirements for inspection and maintenance, performed on mist eliminators (**ID Nos. RM-4ME and RM-5ME**) in Section 2.1 B.1.g., shall be sufficient to ensure compliance with 15A NCAC 02D .0530.
- f. The Permittee shall submit a summary report consisting of the amount of saturated aliphatic hydrocarbons in rolling oil received postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING [40 CFR 64]

- a. The aluminum rolling mills (**ID Nos. RM-1, RM-2, RM-3, RM-4, and RM5**) shall comply with all applicable requirements of 15A NCAC 02D .0614, "Compliance Assurance Monitoring."
- b. Mist eliminators (**ID Nos. RM-1ME, RM-2ME, RM-3MEN, RM-3MES, RM-4ME, and RM-5ME**) shall be properly operated and maintained to control VOC emissions from the aluminum rolling mills (**ID Nos. RM-1, RM-2, RM-3, RM-4, and RM5**).

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. The amperage load on drive motors of each mist eliminator shall be as following:

Mist Eliminator	Normal Operating Range for Drive Motor (Amperes)
RM-1ME	74.8-171.3
RM-2ME	35.6-102.3
RM-3MEN	15.9-36.6
RM-3MES	15-34.5
RM-4ME	47.2-135.7
RM-5ME	36.8-105.8

If the amperage load on drive motor is outside the above normal operating range, the Permittee shall ensure that the interlock mechanism of the mist eliminator automatically (without manual input) shuts down the associated aluminum rolling mill. If any aluminum rolling mill is in operation even though the amperage load on the drive motor of the associated mist eliminator is outside the above corresponding range, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0614.

- d. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a weekly visual inspection of the interlock mechanism of each mist eliminator;
 - ii. a monthly visual inspection of the system ductwork (aluminum rolling mill to stack tip) and material collection unit for leaks; and
 - iii. an annual (for each 12-month period following the initial inspection) internal inspection of the mist eliminator's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0614 if the interlock mechanism, ductwork and mist eliminators are not inspected and maintained.

- e. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the date, time, and duration for each event when interlock mechanism of the mist eliminator has shutdown the aluminum rolling mill;
 - iii. the results of each inspection;
 - iv. the results of any corrective actions performed to bring the shut-downed aluminum rolling mill back in operation;
 - v. the results of any maintenance performed on the mist eliminators; and
 - vi. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0614 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- f. The Permittee shall submit a summary report of all monitoring and record keeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. The report shall also include the following information, as applicable:
 - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

C. Four in-line degassers/filters (ID Nos. MD-1 through MD-4)

Three rotary in-line degassers (ID Nos. MD-5 through MD-7)

The following table provides a summary of limits and standards for the emission sources described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
visible emissions	20 percent opacity (ID Nos. MD-1 through MD-7)	15A NCAC 02D .0521
toxic air pollutants	See Section 2.2 A.3. State-enforceable only	15A NCAC 02D .1100
odorous emissions	See Section 2.2 A.4. State-enforceable only	15A NCAC 02D .1806
toxic air pollutants	Section 2.2 A.8. State-enforceable only	15A NCAC 02Q .0711

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from the in-line degassers/filters (**ID Nos. MD-1 through MD-4**) and the rotary in-line degassers (**ID Nos. MD-5 through MD-7**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any limit given in Section 2.1 C.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a week, the Permittee shall observe the emission points of these sources, when operating, for any visible emissions above normal. The weekly observations must be made for each week of the calendar year period to ensure compliance with this requirement. The Permittee shall establish "normal" for the sources (ID Nos. MD-5 through MD-7) in the first 30 days following the start-up. If visible emissions from the sources (ID Nos. MD-1 through MD-7) are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 C.1.a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide

The following table provides a summary of limits and standards for the emission source(s) describe above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
volatile organic	See Section 2.2 A.1.	15A NCAC 02D .0902(f)
compounds	(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22	[RACT for VOC]
	through FF-26, and RM-1 through RM-5)	
volatile organic	See Section 2.2 A.2.	15A NCAC 02D .0958
compounds	(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22	
	through FF-26, RM-1 through RM5, FR-1, FR-2, and	
	FR-4 through FR-14)	
toxic air pollutants	See Section 2.2 A.3.	15A NCAC 02D .1100
	State-enforceable only	
	(ID Nos. FR-1, FR-2, FR-4 through FR-14, and MD-1	
	through MD-7)	
odorous emissions	See Section 2.2 A.4.	15A NCAC 2D .1806
	State-enforceable only	
	(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22	
	through FF-26, RM-1 through RM5, FR-1, FR-2, and	
1.49	FR-4 through FR-14, and MD-1 through MD-7)	151 3161 6.20 0215()(2)
volatile organic	See Section 2.2 A.5.	15A NCAC 2Q .0317(a)(2)
compounds	(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22	[Avoidance for NAA NSR]
	through FF-26, RM-1 through RM5, FR-1, FR-2, and FR-4 through FR-14)	
hazardous air	See Section 2.2 A.6.	15A NCAC 02Q .0317(a)(5)
pollutants	(ID Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13)	[Avoidance for MACT]
nitrogen oxides	See Section 2.2 A.7.	15A NCAC 02Q .0317(a)(7)
	(ID Nos. FF-1 through FF-6, FF-10, FF-11, FF-20, FF-22	[Avoidance for RACT]
	through FF-26, FR-1, FR-2, and FR-4 through FR-14)	
toxic air pollutants	See Section 2.2 A.8.	15A NCAC 02Q .0711
	State-enforceable only	
	(ID Nos. FR-1, FR-2, FR-4 through FR-14, and MD-1	
	through MD-7)	

1. 15A NCAC 02D .0902(f): REASONABLY AVAILABLE CONTROL TECHNOLOGY FOR VOC

a. The following Reasonably Available Control Technology (RACT) limits shall not be exceeded:

	Pollutant	RACT		
Emission Source		Emission Limit (tons/yr)	Control Technology	
Aluminum rolling mills (ID Nos. RM-1 through RM-5)	VOC		mist eliminator and stack skimmer, and use of rolling oil consisting of 98% saturated aliphatic hydrocarbons	
Anneal Furnaces (ID Nos. FF-1 through FF-6)	VOC	1.66 (each)	use of rolling oil consisting of 98% saturated aliphatic hydrocarbons	
Anneal Furnaces (ID Nos. FF-10 and FF-11)	VOC	1.66 (each)	use of rolling oil consisting of 98% saturated aliphatic hydrocarbons	
Anneal Furnace (ID No. FF-20)	VOC	6.93	use of rolling oil consisting of 98% saturated aliphatic hydrocarbons	
Anneal Furnaces (ID Nos. FF-22 through FF-26)	VOC	9.42 (each)	use of rolling oil consisting of 98% saturated aliphatic hydrocarbons	

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.2 A.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0902(f).

Monitoring/Recordkeeping [15A NCAC 02D .0903]

- c. For aluminum rolling mills (**ID Nos. RM-4 and RM-5**), monitoring/recordkeeping requirements in Section 2.1 B.2.c. and d. shall be sufficient to ensure compliance with 15A NCAC 02D .0902(f). If the requirements of Section 2.1 B.2.c. and d. are not complied with, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0902(f).
- d. For aluminum rolling mills (**ID Nos. RM-1 through RM-3**), the Permittee shall perform inspection and maintenance on mist eliminators (**ID Nos. RM-1ME, RM-2ME, RM-3MEN, and RM-3MES**), and keep records as per Section 2.1 B.1.e. and f. above. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0902(f) if requirements of Section 2.1 B.1.e. and f. are not complied with.
- e. For aluminum rolling mills (**ID Nos. RM-1 through RM-3**), the Permittee shall keep records for each shipment of rolling oil received documenting the amount of saturated aliphatic hydrocarbons. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0902(f) if these records are not maintained or if the amount of saturated aliphatic hydrocarbons in any shipment of rolling oil received is less than 98 percent.

Reporting [15A NCAC 02D .0903]

- f. Reporting requirements for mist eliminators (**ID Nos. RM-4ME and RM-5ME**) in Section 2.1 B.2.e. and f. shall be sufficient to ensure compliance with 15A NCAC 02D .0902(f).
- g. Reporting requirements for mist eliminators (**ID Nos. RM-1ME, RM-2ME, RM-3MEN, and RM-3MES**) in Section 2.1 B.1.g., shall be sufficient to ensure compliance with 15A NCAC 02D .0902(f).
- h. For aluminum rolling mills (**ID Nos. RM-1 through RM-3**), the Permittee shall submit a summary report consisting of the amount of saturated aliphatic hydrocarbons in rolling oil received postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

- a. Pursuant to 15A NCAC 02D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, the Permittee shall:
 - i. store all material, including waste material, containing volatile organic compounds in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 - ii. clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
 - iii. store wipe rags containing volatile organic compounds in closed containers,
 - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
 - v. transfer solvents containing volatile organic compounds used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
 - vi. clean mixing, blending, and manufacturing vats and containers containing volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 02D .0958(c)]
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
 - i flush parts in the freeboard area,
 - ii. take precautions to reduce the pooling of solvent on and in the parts,
 - iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - iv. not fill cleaning machines above the fill line,
 - v. not agitate solvent to the point of causing splashing. [15A NCAC 02D .0958(d)]

Monitoring [15A NCAC 02Q .0508(f)]

c. To ensure compliance with paragraphs (a) and (b) above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing volatile organic compounds. The inspections shall be conducted during normal operations. If the required inspections are not conducted, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0958.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each inspection; and
 - ii. the results of each inspection noting whether or not noncompliant conditions were observed.

If the required records are not maintained, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0958.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

STATE ENFORCEABLE ONLY

3. 15A NCAC 02D .1100 CONTROL OF TOXIC AIR POLLUTANTS

a. Pursuant to 15A NCAC 02D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following permit limits shall not be exceeded:

Emission Sources	Pollutants	Emission Rates
Melt and Holding Furnaces (ID Nos. FR-1, FR-2, and FR-4 through FR-14)	Arsenic and inorganic arsenic compounds	1.84 lbs/yr
	Benzene	11.19 lbs/yr
	Beryllium	1.4 lbs/yr
	Cadmium	1.4 lbs/yr
	Bioavailable chromate pigments as chromium (VI) equivalent	1.4 lbs/yr
	Formaldehyde	0.0444 lb/hr
Melt and Holding Furnaces, and Degassers (ID Nos. FR-1, FR-2, FR-4 through FR-14, and MD-1	Chlorine	0.11 lb/hr 2.67 lb/day
through MD-7)	Hydrogen Chloride	2.01 lb/hr

Testing [15A NCAC 02D .1105]

b. No testing is required.

Monitoring/Recordkeeping/Reporting [15A NCAC 02D .1105]

- c. The Permittee shall record monthly the emission rates of bioavailable chromate pigments as chromium (vi) equivalent.
- d. Within 30 days of a written request from the DAQ, the Permittee shall submit a summary report of and monthly emission rates of bioavailable chromate pigments as chromium (vi) equivalent.

STATE ENFORCEABLE ONLY

4. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

5. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D .0531: SOURCES IN NONATTAINMENT AREAS

a. In order to avoid applicability of 15A NCAC 02D .0531(f), volatile organic compound (VOC) emissions from the facility-wide sources shall be less than 1,486 tons per consecutive 12-month period.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limit given in Section 2.2 A.5.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0531.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- c. To ensure compliance with the emission limit specified in Section 2.2 A.5.a. above, the Permittee shall conduct the following monitoring and recordkeeping:
 - i. Calculate the VOC emissions from the melt, holding, and anneal furnaces on a monthly basis according to the following formula:

VOC, tons/month = $\left[\Sigma \left\{0.34 \text{ lb/}10^3 \text{gallon x A gallon/month}\right\} + \Sigma \left\{5.5 \text{ lb/}10^6 \text{ scf x (B) scf/month}\right\}\right] / \left[2000 \text{ lbs/ton}\right]$

Where,

- A = No. 2 fuel oil usage in gallons per month for each melt or holding furnace, if it burned this fuel in a given month.
- B = natural gas usage in standard cubic feet per month for each melt, holding, or anneal furnace, if it burned this fuel in a given month.
- ii. Calculate the VOC emissions (due to volatilization of rolling oil) for each aluminum rolling mill for each month using the mass balance approach as prescribed here: total quantity of rolling oil entering the given rolling mill total waste oil transferred off-site from a given rolling mill.
- iii. Calculate the VOC emissions (due to volatilization of rolling oil) for each anneal furnace for each month on a monthly basis according to the following formula:

VOC, tons/month = $[\Sigma \{7 \text{ lbs/10,000 lbs annealed aluminum x C lbs/month}\}] / [2000 \text{ lbs/ton}]$

Where,

C = amount of aluminum annealed for each anneal furnace.

VOC emissions calculations shall be recorded in an emissions logbook (written or electronic). In addition, the Permittee shall make available to officials of the Division of Air Quality, upon request, copies of the monthly emissions logbook. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0531 if these records are not maintained or the actual 12-month rolling average emissions of VOC exceed the limit in Section 2.2 A.5.a. above.

Reporting [15A NCAC 02Q .0508(f)]

d. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the monthly VOC emissions for the previous 17 months for facility-wide sources. The emissions must be calculated for each of the 12-month periods over the previous 17 months. All instances of deviations from the requirements of this permit must be clearly identified.

6. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY [40 CFR 63 SUBPART RRR]

a. In order to avoid applicability of 15A NCAC 02D .1111 (40 CFR 63 Subpart RRR "National Emission Standards for Secondary Aluminum Production"), the Permittee shall limit the aluminum raw materials for its melt furnaces (ID Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13) to only clean charge, customer returns, or internal scrap,

and shall not operate sweat furnaces, thermal chip dryers, scrap dryers/delacquering kilns/decorating kilns [40 CFR 63.1500(a) and .1503].

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- b. The Permittee shall maintain records consisting of types of raw materials processed in the melt furnaces (**ID Nos. FR-1**, **FR-4**, **FR-6**, **FR-9**, **FR-11**, **and FR-13**) and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02Q .1111 if these records are not maintained or the types of raw materials are not monitored.
- c. The Permittee shall submit a statement signed by the responsible official that only clean charge, customer return, and internal scrap are used as aluminum raw materials for melt furnaces (ID Nos. FR-1, FR-4, FR-6, FR-9, FR-11, and FR-13), postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

7. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D .1402(d): REASONABLY AVAILABLE CONTROL TECHNOLOGY FOR NITROGEN OXIDES

a. In order to avoid applicability of 15A NCAC 02D .1402(d), nitrogen oxides (NOx) emissions from the facility-wide sources shall be less than 100 tons per consecutive 12-month period and less than 560 lbs per calendar day beginning May 1 through September 30 of any year [15A NCAC 02D .1402(h)(5)].

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limit given in Section 2.2 A.7.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1402(d).

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- c. To ensure compliance with the emission limits specified in Section 2.2 A.7.a. above, the Permittee shall conduct the following monitoring and recordkeeping:
 - i. Calculate the NOx emissions from the melt, holding, and anneal furnaces on a monthly basis according to the following formula:

NOx, tons/month = $[\Sigma \{20 \text{ lb}/10^3 \text{gallon x } A_m \text{ gallon/month}\} + \Sigma \{100 \text{ lb}/10^6 \text{ scf x } B_{1m} \text{ scf/month}\} + \Sigma \{50 \text{ lb}/10^6 \text{ scf x } B_{2m} \text{ scf/month}\}] / [2000 \text{ lbs/ton}]$

Where,

- $A_m = No. 2$ fuel oil usage in gallons per month for each melt or holding furnace, if it burned this fuel in a given month.
- B_{1m} = natural gas usage in standard cubic feet per month for each melt, holding, or anneal furnace [without low-NOx burners], if it burned this fuel in a given month.
- B_{2m} = natural gas usage in standard cubic feet per month for each melt, holding, or anneal furnace [with low-NOx burners], if it burned this fuel in a given month.
- ii. Calculate the NOx emissions from the melt, holding, and anneal furnaces on a daily basis for each calendar day beginning May 1 through September 30 of each year according to the following formula:

NOx, lbs/day = $[\Sigma \{20 \text{ lb/}10^3 \text{gallon } x \text{ A}_d \text{ gallon/day}\} + \Sigma \{100 \text{ lb/}10^6 \text{ scf } x \text{ B}_{1d} \text{ scf/day}\} + \Sigma \{50 \text{ lb/}10^6 \text{ scf } x \text{ B}_{2D} \text{ scf/day}\}]$

Where,

- A_d = No. 2 fuel oil usage in gallons per day for each melt or holding furnace, if it burned this fuel in a given day.
- B_{1d} = natural gas usage in standard cubic feet per day for each melt, holding, or anneal furnace [without low-NOx burners], if it burned this fuel in a given day.
- B_{2D} = natural gas usage in standard cubic feet per day for each melt, holding, or anneal furnace [with low-NOx burners], if it burned this fuel in a given day.

NOx emissions calculations (daily and monthly) shall be recorded in an emissions logbook (written or electronic). In addition, the Permittee shall make available to officials of the Division of Air Quality, upon request, copies of the daily and monthly emissions logbook. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1402(d) if these records are not maintained or the actual daily emissions of NOx during the calendar day beginning May 1 through September 30 of any year exceed the limit in Section 2.2 A.7.a. above or the actual 12-month rolling average emissions of NOx exceed the limit in Section 2.2 A.7.a. above.

Reporting [15A NCAC 02Q .0508(f)]

- d. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. The monthly NOx emissions for the previous 17 months for facility-wide sources. The emissions must be calculated for each of the 12-month periods over the previous 17 months.
 - ii. The highest daily NOx emissions during each month of the semiannual reporting period for facility-wide sources.

All instances of deviations from the requirements of this permit must be clearly identified.

STATE ENFORCEABLE ONLY

8. 15A NCAC 02Q .0711: EMISSION RATES REQUIRING A PERMIT

- a. Pursuant to 15A NCAC 02Q .0711 "Emission Rates Requiring a Permit," for each of the below listed toxic air pollutants (TAPs), the Permittee has made a demonstration that the facility-wide actual emissions do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 02Q .0711. The facility shall be operated and maintained in such manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed the TPERs listed in 15A NCAC 02Q .0711.
 - i. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
 - ii. Prior to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 02D .1100 "Control of Toxic Air Pollutants".
 - iii. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

	TPERs Limitations			
Pollutant (CAS Number)	Carcinogens (lbs/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
benzo(a)pyrene (50-32-8)	2.2			
n-hexane (110-54-3)		23		
manganese and compounds		0.63		
mercury, aryl and inorganic compounds		0.013		
toluene (108-88-3)		98		14.4
xylene (1330-20-7)		57		16.4

- b. The Permittee is allowed to use spent rolling oil in sources (ID Nos. FR-1, FR-2, and FR-4 through FR-8) as follows:
 - i. <u>Specifications</u> The spent rolling oil shall be equivalent to unadulterated fossil fuel by meeting the following criteria:

Constituent/Property	Allowable Level	
Arsenic	1 ppm maximum	
Cadmium	2 ppm maximum	
Chromium	5 ppm maximum	
Lead	100 ppm maximum	
Total Halogens	1000 ppm maximum	
Flash Point	100 F minimum	
Ash	1.0 % maximum	

Testing Requirements

ii. The Permittee shall collect and analyze a sample of the spent rolling oil by December 30 of each calendar year. Each representative sample shall be tested for the constituents/properties as listed in Section 2.2 A.8.b.i. above.

Monitoring / Recordkeeping Requirements

- iii. The Permittee is responsible for ensuring that the spent rolling oil meets the approved criteria for unadulterated fuel. The Permittee is held responsible for any discrepancies discovered by DAQ as a result of any sampling and analysis of the spent rolling oil.
- iv. The Permittee shall maintain at the facility for a minimum of five years, and shall make available to representatives of the DAQ upon request, accurate records of the following:
 - (A) the actual amount of spent rolling oil delivered to, and fired at the facility on an annual basis.
 - (B) the results of any analytical testing of the spent rolling oil as it is sampled and tested by the supplier.

Reporting Requirements

- v. Within 30 days after each calendar year, the Permittee shall submit in writing to the Regional Supervisor, DAQ, the following:
 - (A) a summary of the results of the analytical testing for the previous 12 months.
 - (B) the total gallons of spent rolling oil fired at the facility for the previous 12 months.

SECTION 3 - GENERAL CONDITIONS (version 4.0 12/17/15)

This section describes terms and conditions applicable to this Title V facility.

A. General Provisions [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

- 1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
- The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable
 pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any
 unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement
 action by the DAO.
- 3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
- 4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
- 5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
- 6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. Severability Clause [15A NCAC 02Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance North Carolina Division of Air Quality 1641 Mail Service Center Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. <u>Circumvention</u> - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. Permit Modifications

- 1. Administrative Permit Amendments [15A NCAC 02Q .0514]
 - The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
- Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
 The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
- 3. Minor Permit Modifications [15A NCAC 02Q .0515]
 - The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
- 4. Significant Permit Modifications [15A NCAC 02Q .0516]
 - The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
- 5. Reopening for Cause [15A NCAC 02Q .0517]
 - The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. Changes Not Requiring Permit Modifications

1. Reporting Requirements

Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:

- a. changes in the information submitted in the application;
- b. changes that modify equipment or processes; or
- c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

- 2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
 - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
 - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made: and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
- 3. Off Permit Changes [15A NCAC 02Q .0523(b)]

The Permittee may make changes in the operation or emissions without revising the permit if:

- a. the change affects only insignificant activities and the activities remain insignificant after the change; or
- b. the change is not covered under any applicable requirement.
- 4. Emissions Trading [15A NCAC 02Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A <u>Reporting Requirements for Excess Emissions and Permit Deviations</u> [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

"Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)

"<u>Deviations</u>" - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

- 1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
- 2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished;
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

- 3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B Other Requirements under 15A NCAC 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

- 1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
- 2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. **Emergency Provisions** [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of
the facility, including acts of God, which situation requires immediate corrective action to restore normal operation,
and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable
increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent

caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

- 2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
- 3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
- 4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. Need to Halt or Reduce Activity Not a Defense [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. Duty to Provide Information (submittal of information) [15A NCAC 02Q .0508(i)(9)]

- 1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
- 2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **<u>Duty to Supplement</u>** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. Compliance Certification [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions

limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

- 1. the identification of each term or condition of the permit that is the basis of the certification;
- 2. the compliance status (with the terms and conditions of the period covered by the certification);
- 3. whether compliance was continuous or intermittent; and
- 4. the method(s) used for determining the compliance status of the source during the certification period.

Q. Certification by Responsible Official [15A NCAC 02Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. Permit Shield for Applicable Requirements [15A NCAC 02Q .0512]

- Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
- 2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 - c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
- 3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
- 4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. Termination, Modification, and Revocation of the Permit [15A NCAC 02Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

- 1. the information contained in the application or presented in support thereof is determined to be incorrect;
- 2. the conditions under which the permit or permit renewal was granted have changed;
- 3. violations of conditions contained in the permit have occurred;
- 4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
- 5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. <u>Insignificant Activities</u> [15A NCAC 02Q .0503]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. Inspection and Entry [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

- 1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
 - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

- d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.
- Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.
- 2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. Annual Fee Payment [15A NCAC 02O .0508(i)(10)]

- 1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
- 2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
- 3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. Annual Emission Inventory Requirements [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. Confidential Information [15A NCAC 02Q .0107 and 02Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. Construction and Operation Permits [15A NCAC 02Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. Standard Application Form and Required Information [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. Financial Responsibility and Compliance History [15A NCAC 02Q .0507(d)(4)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. Refrigerant Requirements (Stratospheric Ozone and Climate Protection) [15A NCAC 02Q .0501(e)]

- If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or
 II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40
 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment
 according to the work practices, personnel certification requirements, and certified recycling and recovery equipment
 specified in 40 CFR Part 82 Subpart F.
- 2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
- 3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR \square 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. Prevention of Accidental Releases - Section 112(r) [15A NCAC 02O .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. <u>Prevention of Accidental Releases General Duty Clause - Section 112(r)(1)</u> – FEDERALLY-ENFORCEABLE ONLY

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. Air Pollution Emergency Episode [15A NCAC 02D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

HH. Registration of Air Pollution Sources [15A NCAC 02D .0202]

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

II. Ambient Air Quality Standards [15A NCAC 02D .0501(c)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. General Emissions Testing and Reporting Requirements [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

- 1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
- 2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
- 3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
- 4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.

- iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
- b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

KK. Reopening for Cause [15A NCAC 02Q .0517]

- 1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - additional requirements (including excess emission requirements) become applicable to a source covered by Title IV:
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
- 3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
- 4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
- 5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. Specific Permit Modifications [15A NCAC 02Q.0501 and .0523]

- 1. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
- 2. For modifications made pursuant to 15A NCAC 02Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
- 3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:

- a. a description of the change at the facility;
- b. the date on which the change will occur;
- c. any change in emissions; and
- d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. Third Party Participation and EPA Review [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

List of Acronyms

AOS Alternate Operating Scenario
BACT Best Available Control Technology

Btu British thermal unit CAA Clean Air Act

CAIR Clean Air Interstate Rule
CEM Continuous Emission Monitor
CFR Code of Federal Regulations
DAQ Division of Air Quality

DEQ Department of Environmental Quality
EMC Environmental Management Commission

EPA Environmental Protection Agency

FR Federal Register

GACT Generally Available Control Technology

HAP Hazardous Air Pollutant

MACT Maximum Achievable Control Technology

NAA Non-Attainment Area

NCAC North Carolina Administrative Code NCGS North Carolina General Statutes

NESHAP National Emission Standards for Hazardous Air Pollutants

NOx Nitrogen Oxides

NSPS New Source Performance Standard OAH Office of Administrative Hearings

PM Particulate Matter

PM₁₀ Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less

POS Primary Operating Scenario

PSD Prevention of Significant DeteriorationRACT Reasonably Available Control Technology

SIC Standard Industrial Classification

SIP State Implementation Plan

SO₂ Sulfur Dioxide tpy Tons Per Year

VOC Volatile Organic Compound